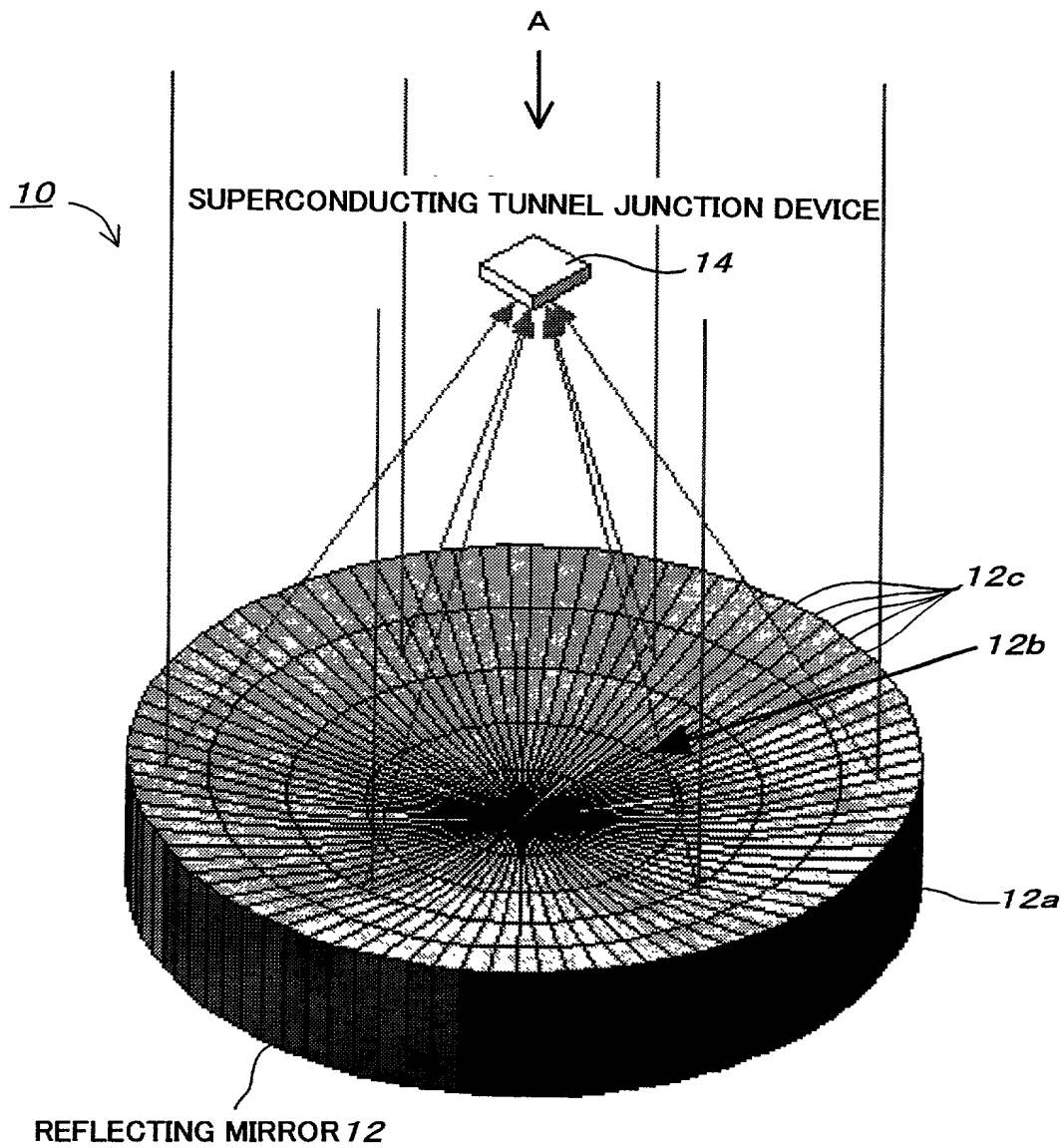


**FIG. 1**



**FIG. 2**

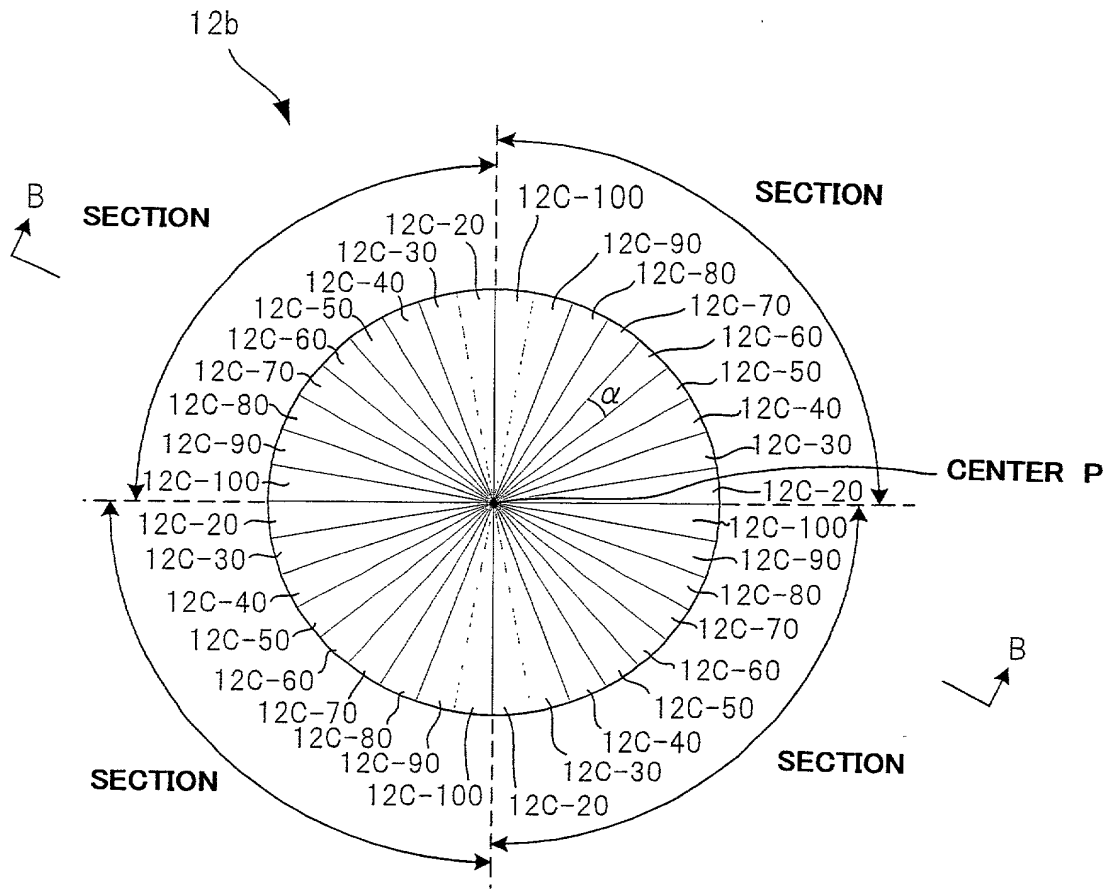
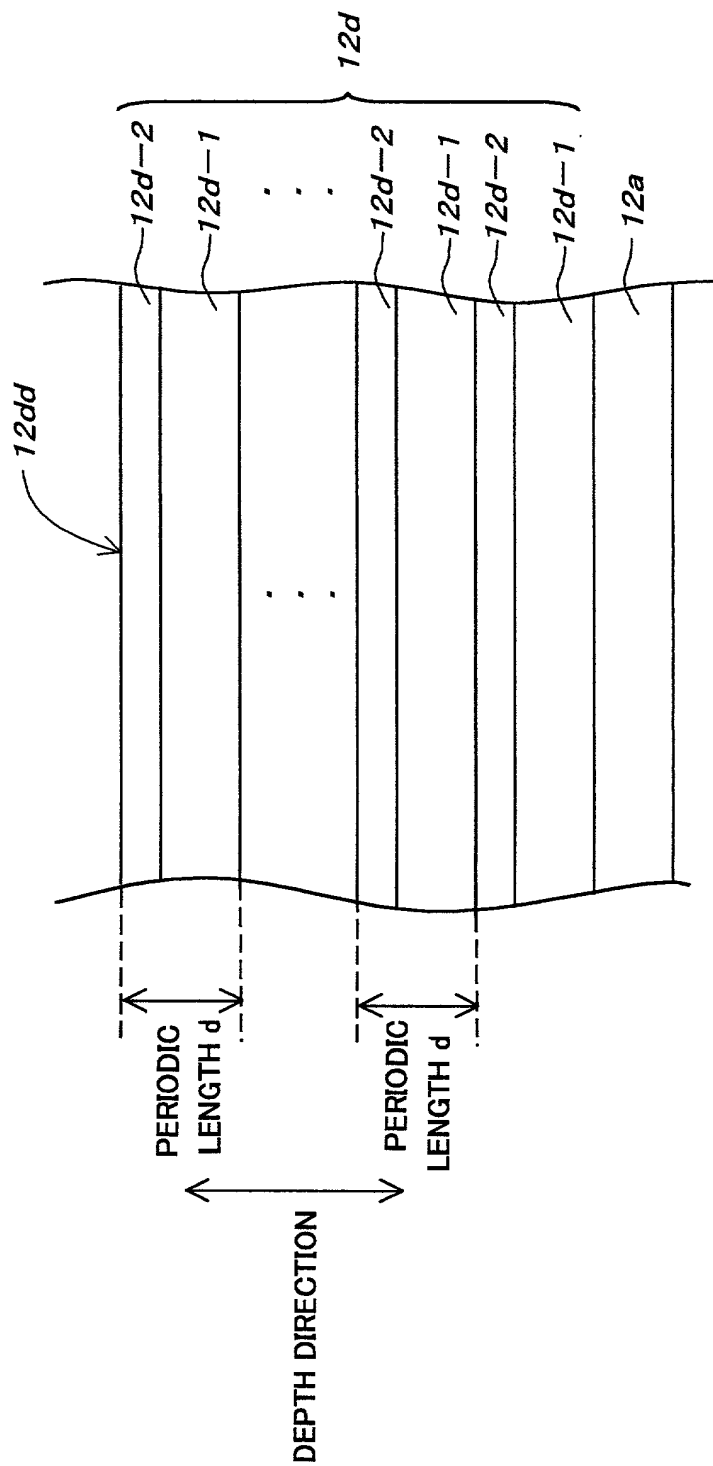
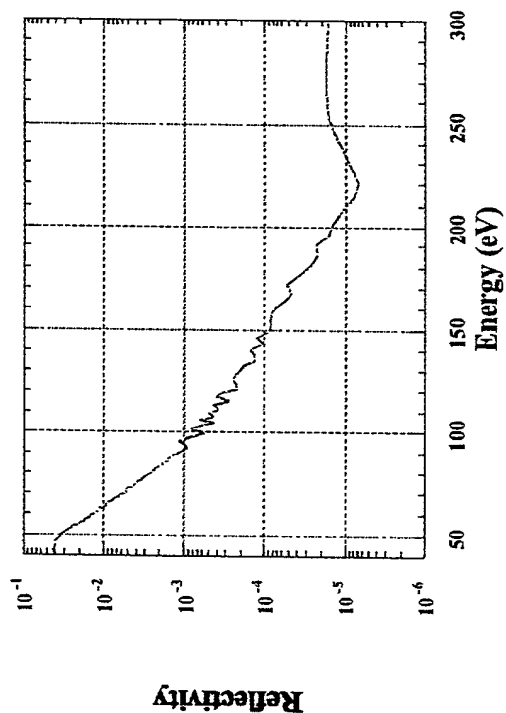


FIG. 3



**FIG. 4(a)**



**FIG. 4(b)**

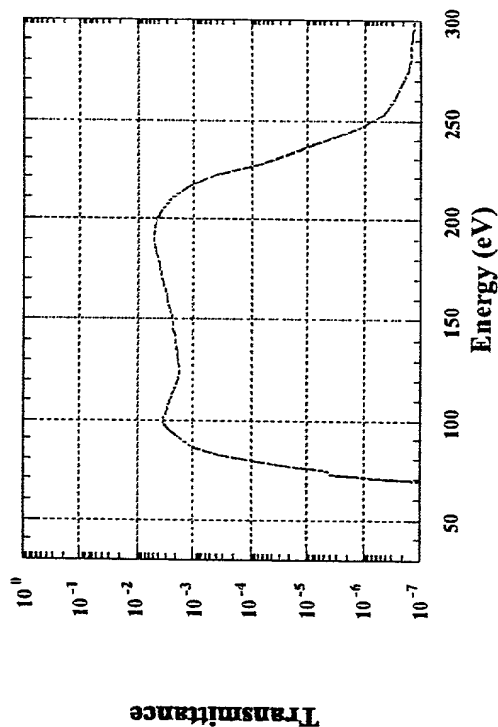


FIG. 5

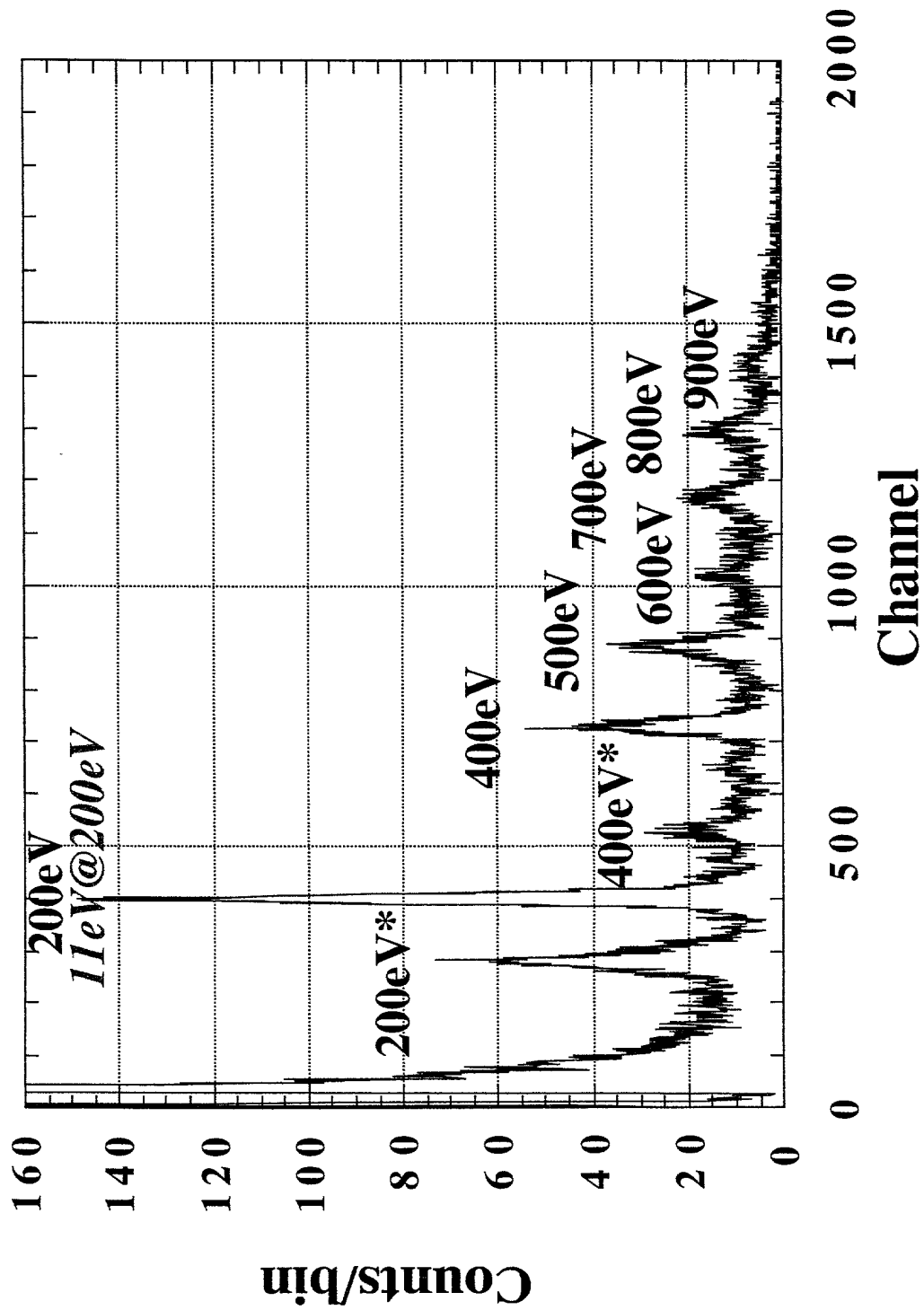
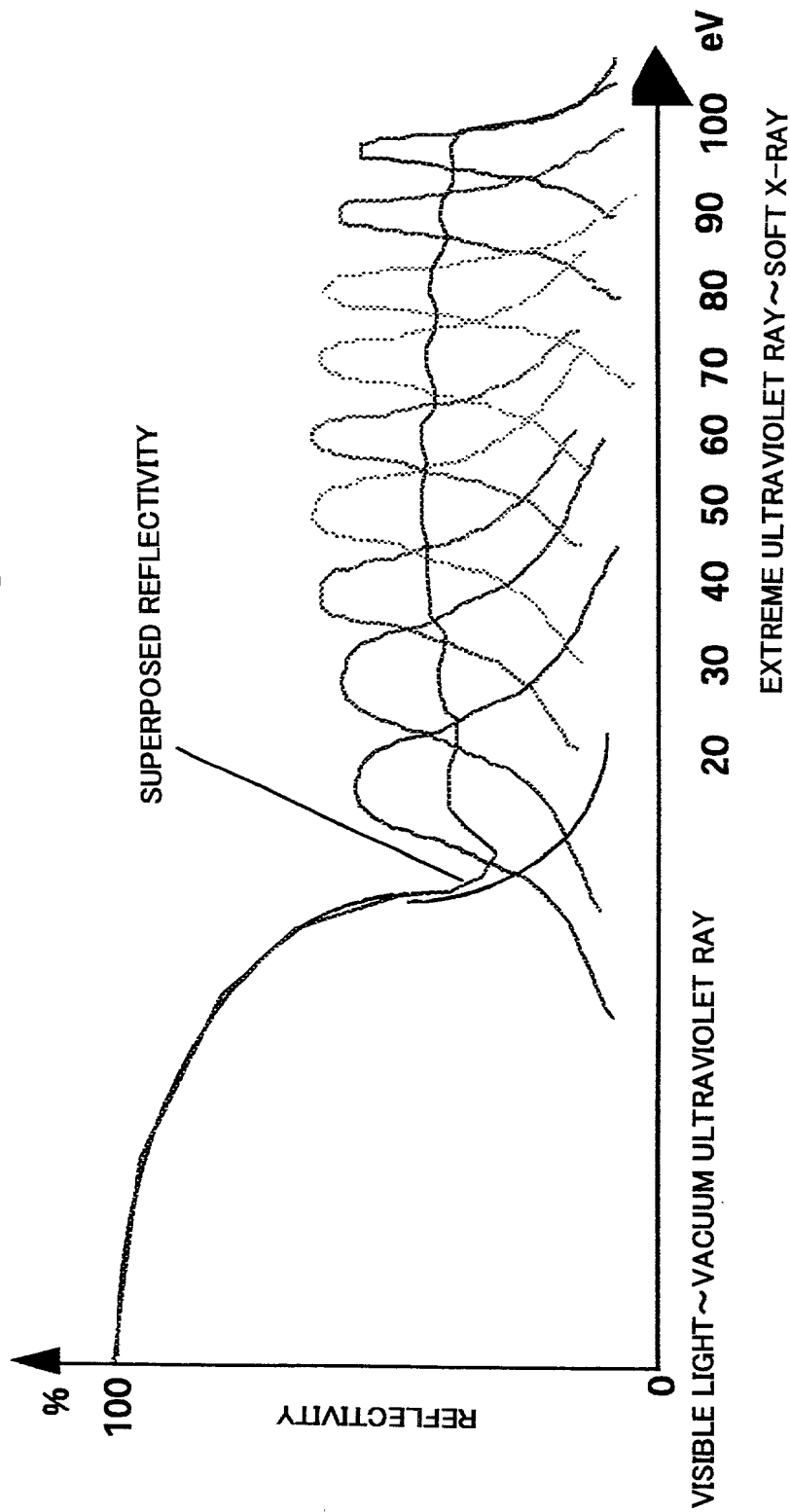


FIG. 6



SYNTHESIZED REFLECTIVITY CHARACTERISTICS OF MULTILAYER FILM REFLECTING MIRROR

FIG. 7(a)

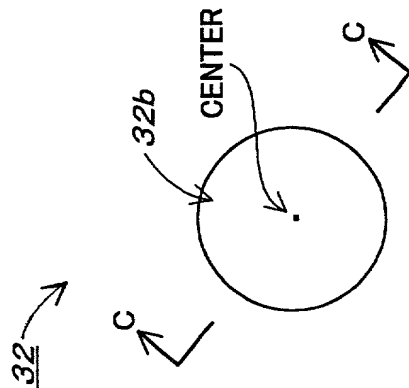
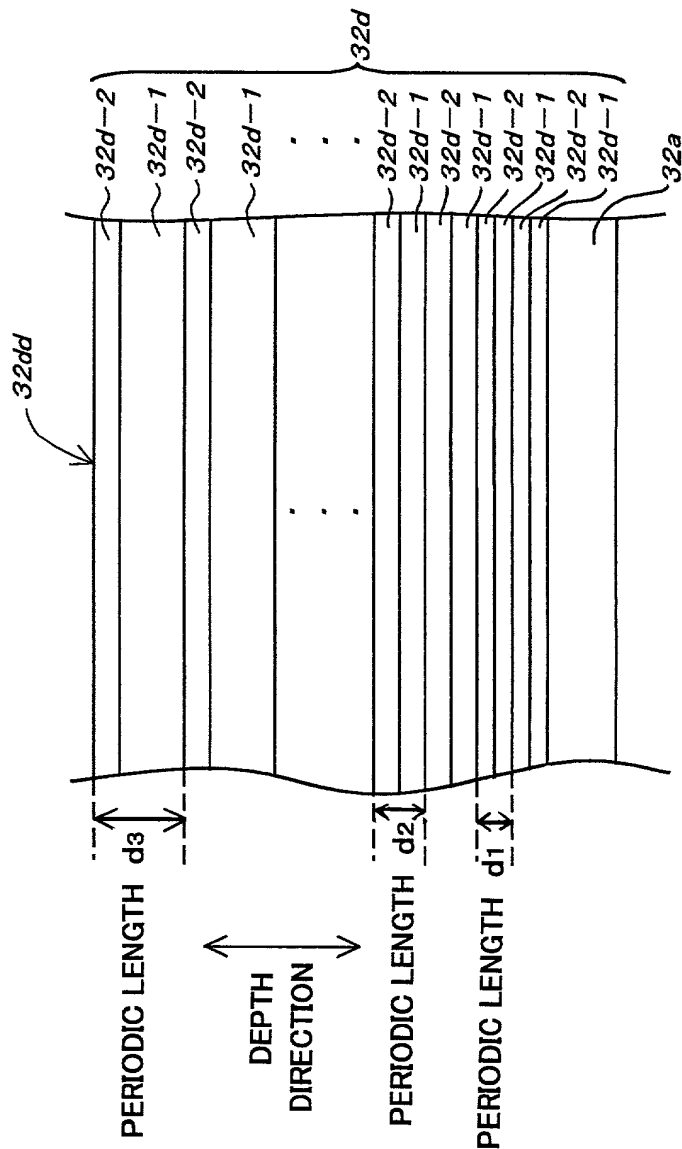


FIG. 7(b)



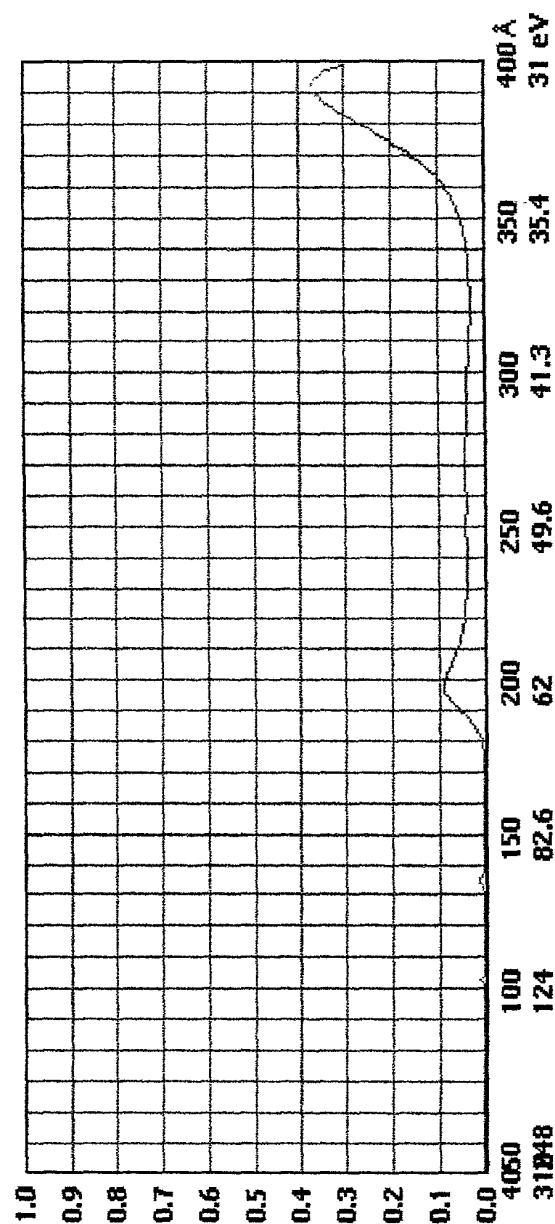
# FIG. 8

NUMBER	MATERIAL1	MATERIAL2	VALUE $\delta$	VALUE $\gamma$	NUMBER OF PAIR LAYER	THEORETICAL CALCULATION1	THEORETICAL CALCULATION2
1	Mo	Mg2Si	170	50	20	O	O
2	Mo	Mg2Si	190	50	20	O	O
3	Mo	Mg2Si	210	40	20	O	O
4	Mo	Si	115	50	20	O	O
5	Mo	Si	140	50	20	O	O
6	Mo	Si	55	50	20	O	O
7	Mo	Si	60	50	20	O	O
8	Mo	Si	65	50	20	O	O
9	Mo	Si	65	70	20	O	O
10	Mo	Si	70	70	20	O	O
11	Mo	Si	75	70	20	O	O
12	Mo	Si	80	50	20	O	O
13	Ni	C	22	40	200	O	x
14	Ni	C	25	40	200	O	x
15	Ni	C	30	40	200	O	x
16	Ni	C	40	30	30	O	x
17	Ni	C	45	30	30	O	x
18	Ni	C	50	30	30	O	x
19	Ni	C	55	30	30	O	x
20	Ni	C	60	30	30	O	x
21	Mo	Si	85	50	20	O	O
22	Mo	Si	90	50	20	O	O
23	Mo	Si	95	50	20	O	O

100000035.100001



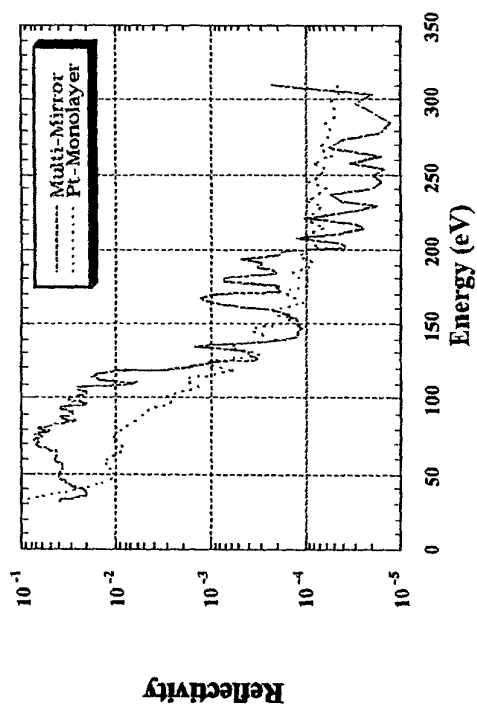
FIG. 9





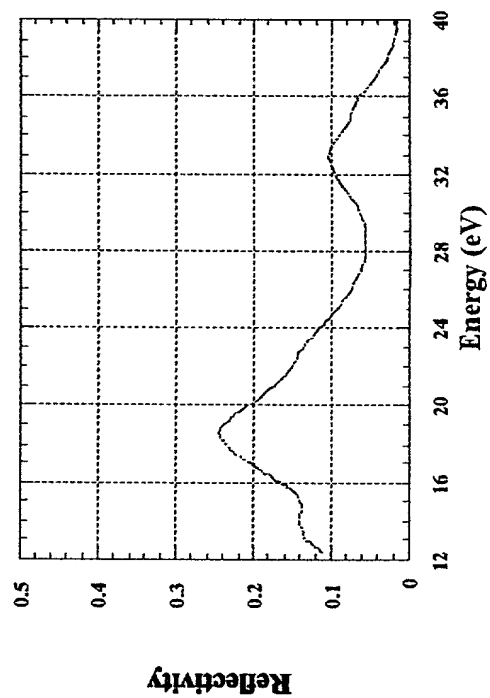
# FIG. 11

COMPARISON OF SYNTHESIZED REFLECTIVITY WITH REFLECTIVITY  
IN Pt MONOLAYER IN CASE OF IGNORING 125 eV OR HIGHER



**FIG. 12**

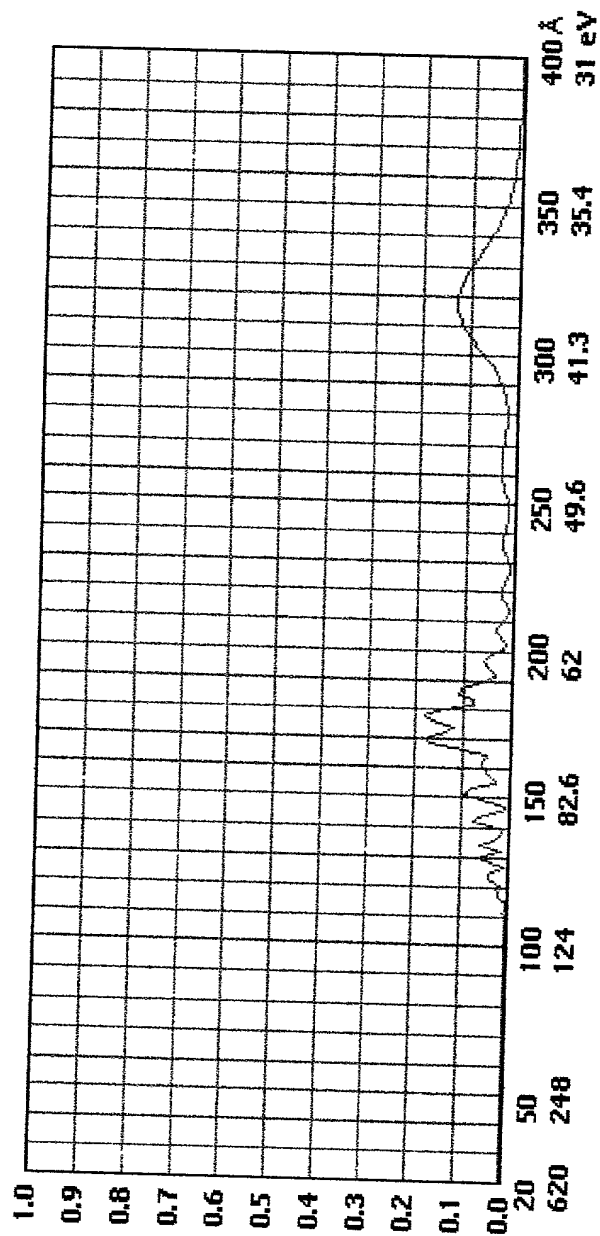
MULTILAYER FILM Mo/Mg<sub>2</sub>Si VALUE d 200  
VALUE G 30 100PAIR LAYER



**FIG. 13**

NUMBER	MATERIAL1	MATERIAL2	INITIATION VALUE d	TERMINATION VALUE d	VALUE $\gamma$	NUMBER OF PAIR LAYER
1	Mo	Si	170	50	30	20
2	Mo	Si	190	50	50	20
3	Mo	Si	210	50	35	20
4	Mo	Si	115	50	25	20
5	Mo	Si	140	50	20	100

**FIG. 14**



# FIG. 15

COMPARISON OF SYNTHESIZED REFLECTIVITY IN  
SUPERMIRROR WITH REFLECTIVITY IN Pt MONOLAYER FILM

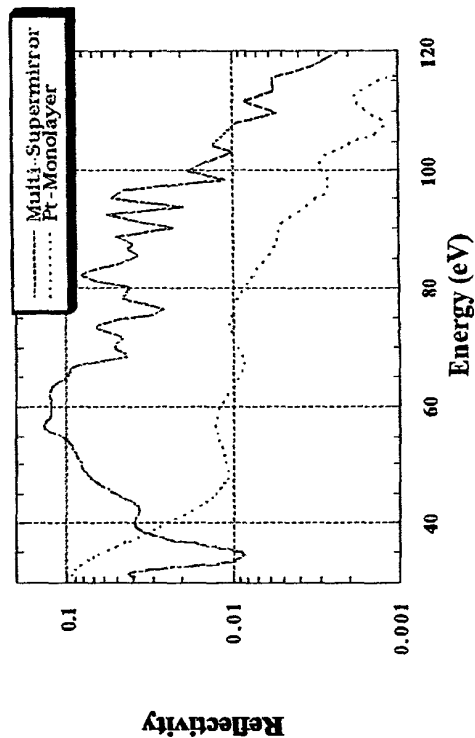


FIG. 16(a)

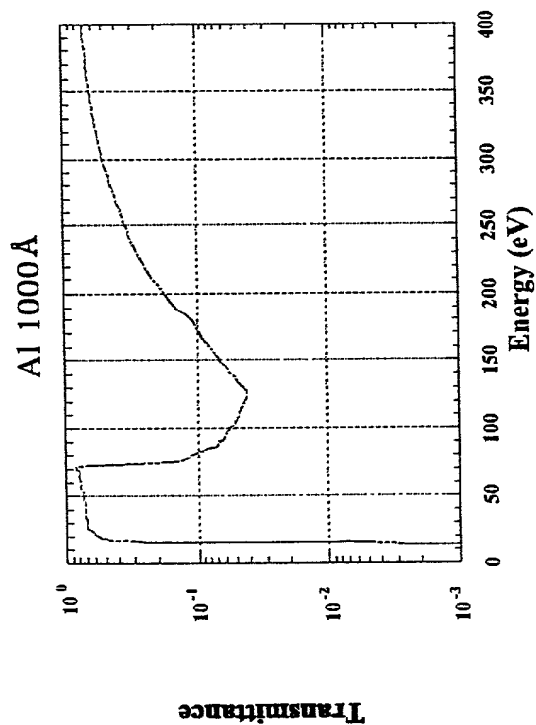
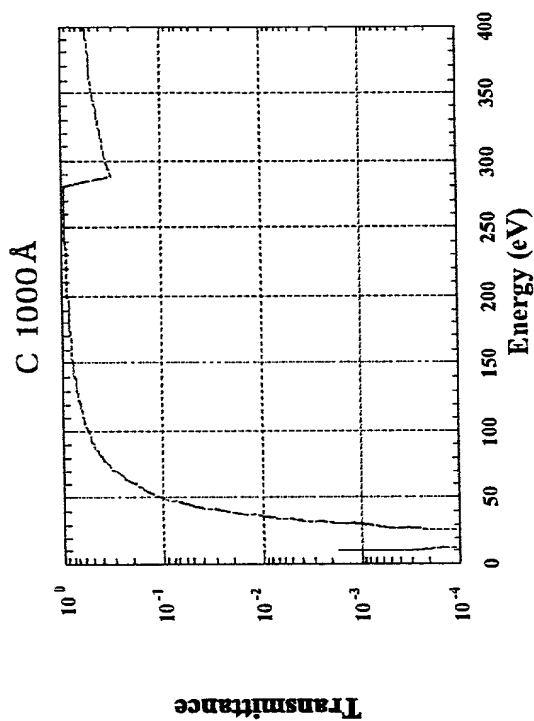
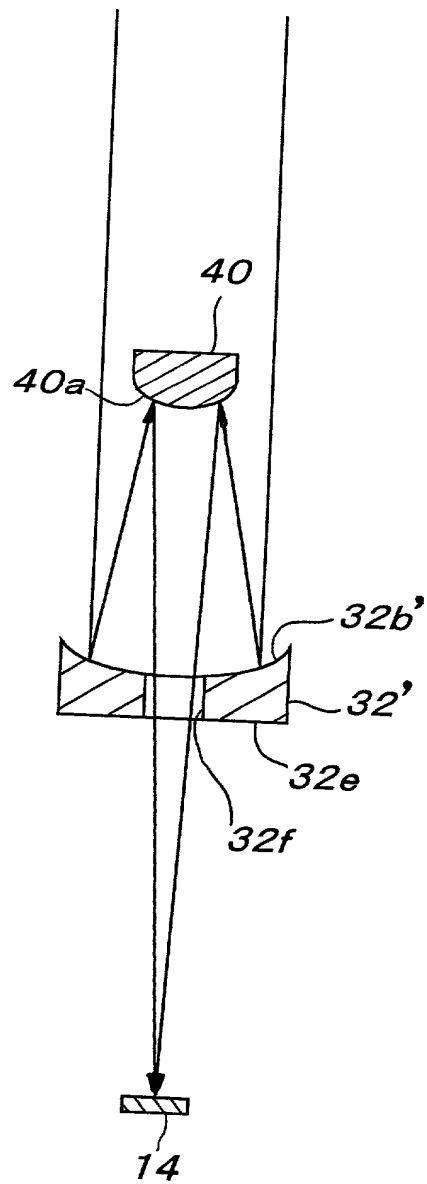
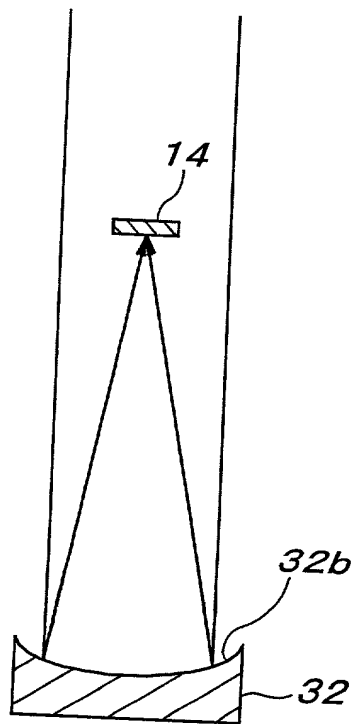


FIG. 16(b)





**FIG. 17(a) FIG. 17(b)**



**FIG. 18**

